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Software fault tolerance in real-time embedded systems

E. K. Park

February

CSC '89: Proceedings of the 17th conference on ACM Annual Computer Science Conference

1989

Publisher: ACM Name Request Permissions Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

Many critical embedded systems which have very high reliability requirements operate in real time. Considering the significance of their applications, design of highly reliable software is a very important research area. In the development of reliable ...

2 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software. requirements creation from folklore to analysis, SW components and product lines: from business to

systems and technology, Software engineering survey)

September SI GSOFT Software Engineering Notes, Volume 30 Issue 5

2005

Publisher: ACM

Full text available: The control of the control of

Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 257, Downloads (Overall): 3478, Citation Count: 0

Frontmatter (TOC, Miscellaneous material)

ACM SIGSOFT Software Engineering Notes staff November SIGSOFT Software Engineering Notes, Volume 31 issue 6

2006

Publisher: ACM

Full text available: Poli (1.25

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 128, Downloads (Overall): 675, Citation Count: 0

Self-adaptive software: Landscape and research challenges

Mazelar Salehile, Ladan Tahvildari

May 2009 Transactions on Autonomous and Adaptive Systems (TAAS), Volume 4 Issue 2

Publisher: ACM N Pequest Permissions

Full text available: Fdf (359.11 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 185, Downloads (12 Months): 1155, Downloads (Overall): 1155, Citation Count: 2

Software systems dealing with distributed applications in changing environments normally require human supervision to continue operation in all conditions. These (re-)configuring, troubleshooting, and in general maintenance tasks lead to costly and time-consuming ...

Keywords: Adaptation processes, research challenges, self-adaptive software, self-properties, survey

Communications of the ACM: Volume 52 Issue 11

November 2009

Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (6.64 MB)

Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 571, Downloads (12 Months): 711, Downloads (Overall): 711, Citation Count: 0

Towards the issues in architectural support for protection of software execution

Weidong Shi, Hsien-Hsin S. Lee, Chenghuai Lu, Mrinmoy Ghosh

March SI GARCH Computer Architecture News, Volume 33 Issue 1

2005

Publisher: ACM

Full text available: RB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 81, Downloads (Overall): 673, Citation Count: 3

Recently, there is a growing interest in the research community to employ tamper-resistant processors for software protection. Many of these proposed systems rely on a specially tailored secure processor to prevent 1) illegal software duplication, 2) ...

Keywords: attack, copy protection, encryption, security, tamper resistance

7 Frontmatter (TOC, Letter from the chair, Letter from the editor, Letters to the editor, ACM policy and procedures on plagiarism, PASTE abstracts, Calendar of future events, Workshop and conference

information)

ACM SIGSOFT Software Engineering Notes staff

January SIGSOFT Software Engineering Notes, Volume 31 Issue 1

2006

Publisher: ACM

Full text available: (1.82

Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 35, Downloads (Overall): 310, Citation Count: 0

8 Architectural Support for High Speed Protection of Memory Integrity and Confidentiality in

Multiprocessor Systems

Weidong Shi, Hsien-Hsin S. Lee, Mrinmoy Ghosh, Chenghuai Lu

PACT '04: Proceedings of the 13th International Conference on Parallel Architectures and September

2004 Compilation Techniques

Publisher: IEEE Computer Society

Full text available: Pdf (255.33

Additional Information: full citation, abstract, reterences, cited by

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 62, Downloads (Overall): 224, Citation Count: 5

Recently there is a growing effort in both the architecture and the security community to create a hardware solution for authenticating system memory. As shown in the previous work, hardware-based memory authentication will become a vital component for ...

Formalizing space shuttle software requirements: four case studies

Judith Crow, Ben Di Vito

July Transactions on Software Engineering and Methodology (TOSEM), Volume 7 Issue 3

1998

Publisher: ACM & Bequest Permissions

Full text available: Pdf (267.77 Additional Information: full citation, abstract, references, cited by, index terms, review KB)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 170, Downloads (Overall): 1421, Citation Count: 4

This article describes four case studies in which requirements for new flight software subsystems on NASA's Space Shuttle were analyzed using mechanically supported formal methods. Three of the studies used standard formal specification and verification ...

Keywords: flight software, formal methods, requirements analysis, space shuttle, state exploration, theorem proving

10 Attacks and risk analysis for hardware supported software copy protection systems

<u>Weidong Shi, Hsien-Hsin S. Lee, Chenghuai Lu, Tao Zhang</u>

October DRM '04: Proceedings of the 4th ACM workshop on Digital rights management

2004

Publisher: ACM Nagarat Permissions

The state of the s

Full text available: (167.21 Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 55, Downloads (Overall): 870, Citation Count: 1

<i>Recently, there is a growing interest in the research community to use tamper-resistant processors for software copy protection. Many of these tamper-resistant systems rely on a specially tailored secure processor to prevent, 1) illegal software ...

Keywords: attack, copy protection, tamper resistance

11 Control-flow integrity principles, implementations, and applications

Martin Abadi, Mihai Budiu, Ülfar Erlingsson, Jay Ligatti

October Transactions on Information and System Security (TI SSEC), Volume 13 Issue 1

2009

Publisher: ACM Nequest Permissions

Full text available: Additional Information: juli citation, appendices and supplements, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 48, Downloads (12 Months): 190, Downloads (Overall): 190, Citation Count: 0

Current software attacks often build on exploits that subvert machine-code execution. The enforcement of a basic safety property, control-flow integrity (CFI), can prevent such attacks from arbitrarily controlling program behavior. CFI enforcement is ...

Keywords: Binary rewriting, control-flow graph, inlined reference monitors, vulnerabilities

12 Secure Embedded Processing through Hardware-Assisted Run-Time Monitoring

Divya Arora, Srivaths Ravi, Anand Raghunathan, Nirai K. Jha

March DATE '05: Proceedings of the conference on Design, Automation and Test in Europe -

2005 **Volume 1**, Volume 1 **Publisher:** IEEE Computer Society

Full text available: (222.67 Additional Information: Juli cliation, abstract, references, clied by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 46, Downloads (Overall): 365, Citation Count: 9

Security is emerging as an important concern in embedded system design. The security of embedded systems is often compromised due to vulnerabilities in "trusted" software that they execute. Security attacks exploit these vulnerabilities to trigger unintended ...

13 Making secure processors OS- and performance-friendly

Siddhartha Chhabra, Brian Rogers, Yan Solihin, Milos Pryulovic

March Transactions on Architecture and Code Optimization (TACO), Volume 5 Issue 4 2009

Publisher: ACM Name Request Permissions

Full text available: Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 303, Downloads (Overall): 303, Citation Count: 0

In today's digital world, computer security issues have become increasingly important. In particular, researchers have proposed designs for secure processors that utilize hardware-based memory encryption and integrity verification to protect the privacy ...

Keywords: Secure processor architectures, memory encryption, memory integrity verification, virtualization

14 Integrating hardware and software information flow analyses

Colin J. Fidge, Diane Corney

June LCTES '09: Proceedings of the 2009 ACM SIGPLAN/SIGBED conference on Languages, compilers, and

2009 tools for embedded systems **Publisher:** ACM Request Permissions

Full text available: [652.11 Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 114, Downloads (Overall): 114, Citation Count: 0

Security-critical communications devices must be evaluated to the highest possible standards before they can be deployed. This process includes tracing potential information flow through the device's electronic circuitry, for each of the device's operating ...

Keywords: communications devices, embedded software, information security evaluation

Also published in:

June 2009 SIGPLAN Notices Volume 44 Issue 7

15 Using Address Independent Seed Encryption and Bonsai Merkle Trees to Make Secure Processors

OS- and Performance-Friendly

Brian Rogers, Siddhartha Chhabra, Milos Prvulovic, Yan Solihin

December MI CRO '07: Proceedings of the 40th Annual IEEE/ACM International Symposium on

Full text available: (954.09 Additional Information: full citation, abstract, index terms KB)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 47, Downloads (Overall): 132, Citation Count: 2

In today's digital world, computer security issues have become increasingly important. In particular, researchers have proposed designs for secure processors which utilize hardware-based mem- ory encryption and integrity verification to protect the privacy ...

16 Control-flow integrity

🙈 Martin Abadi, Mihai Budiu, Últar Erlingsson, Jay Ligatti

November CCS '05: Proceedings of the 12th ACM conference on Computer and communications security

2005

Publisher: ACM & Request Permissions

Full text available: 218.60 Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 154, Downloads (Overall): 945, Citation Count: 37

Current software attacks often build on exploits that subvert machine-code execution. The enforcement of a basic safety property, Control-Flow Integrity (CFI), can prevent such attacks from arbitrarily controlling program behavior. CFI enforcement is ...

Keywords: binary rewriting, control-flow graph, inlined reference monitors, vulnerabilities

17 Architectural support for software-based protection

Mihai Budiu, Úlfar Erlingsson, Martín Abadi

October ASID '06: Proceedings of the 1st workshop on Architectural and system support for improving

2006 software dependability Publisher: ACM & Request Permissions

Full text available: Pdf (642.62 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 65, Downloads (Overall): 299, Citation Count: 1

Control-Flow Integrity (CFI) is a property that guarantees program control flow cannot be subverted by a malicious adversary, even if the adversary has complete control of data memory. We have shown in prior work how CFI can be enforced by using inlined ...

Keywords: binary rewriting, control-flow graph, control-flow integrity, hardware support, memory protection, security, software fault isolation

Peer-to-peer access control architecture using trusted computing technology Havi Sandhu, Xinwen Zhang SACMAT '05: Proceedings of the tenth ACM symposium on Access control models and technologies 2005 Publisher: ACM & Request Permissions Full text available: Pdf (215.48 Additional Information: full citation, abstract, references, cited by, index terms, review Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 194, Downloads (Overall): 1970, Citation Count: 16 It has been recognized for some time that software alone does not provide an adequate foundation for building a high-assurance trusted platform. The emergence of industry-standard trusted computing technologies promises a revolution in this respect by ... Keywords: access control, policy enforcement, security architecture, trusted computing 19 A parallelized way to provide data encryption and integrity checking on a processor-memory bus Beouven Elbaz, Lionel Torres, Gilles Sassatelli, Pierre Guillemin, Michel Bardouillet, Albert Martinez July DAC '06: Proceedings of the 43rd annual Design Automation Conference 2006 Publisher: ACM & Request Permissions Full text available: (668.26 KB) Additional Information: full citation, abstract, references, cited by, index terms Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 65, Downloads (Overall): 319, Citation Count: 2 This paper describes a novel engine, called PE-ICE (Parallelized Encryption and Integrity Checking Engine), enabling to guarantee confidentiality and integrity of data exchanged between a SoC (System on Chip) and its external memory. The PE-ICE approach ... Keywords: architectures, bus encryption, data confidentiality and integrity 20 Authentication Control Point and its Implications For Secure Processor Design Weidong Shi, Hsien-Hsin S. Lee December MICRO 39: Proceedings of the 39th Annual IEEE/ACM International Symposium on 2006 Microarchitecture

Publisher: IEEE Computer Society

Full text available: 19:30 Additional Information: juli citation, abstract, reterences, cited by, index terms

KB)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 51, Downloads (Overall): 284, Citation Count: 3

Secure processor architecture enables tamper-proof protection on software that addresses many dificult security prob- lems such as reverse-engineering prevention, trusted com- puting, secure mobile agents by providing a secure comput- ing environment ...

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